

## FROM ROOTS TO REVENUE: COMMUNITY-BASED CARBON SEQUESTRATION THROUGH AGROFORESTRY

ReNew identified a crisis affecting over 1,000 smallholder farming families in the drought-prone regions of Andhra Pradesh and Maharashtra. Erratic weather patterns, land degradation, and falling groundwater tables had trapped these communities in cycles of debt and declining productivity. Without intervention, these ecologically fragile areas would face continued agricultural collapse, threatening both food security and rural livelihoods.

### Implementation Approach



#### Strategic Community Engagement

- Community-led implementation through NGO collaboration
- Aligned environmental and economic sustainability goals



#### Farmer Mobilisation & Training

- Engaged 1,000 farmers through village meetings
- 304 actively participating in pilot phase
- Focused on agroforestry best practices and economic benefits



#### Targeted Plantation & Sustainability

- Planted 130,000 trees across 7 indigenous, carefully chosen for ecological resilience, carbon potential, and commercial viability



#### Technical Capacity Building




- Provided specialised agroforestry training to equip farmers with knowledge and tools for high survival rates and to optimise land productivity methods.



#### Data-Driven Monitoring & Impact Assessment

- Implemented digital tracking mechanisms to monitor tree survival rates, land restoration progress and farmer engagement, supporting carbon credit validation and sustainability reporting

### Impact – Throughout and Beyond

Impact	Achievement
 <b>Environmental</b>	<ul style="list-style-type: none"> <li>• <b>130,000 trees</b> planted with <b>90% survival rate</b></li> <li>• <b>~5,000 tons</b> CO<sub>2</sub>e sequestered</li> <li>• Improved soil fertility and water retention</li> </ul>
 <b>Economic</b>	<ul style="list-style-type: none"> <li>• <b>304</b> active farmers with strong ownership</li> <li>• <b>Zero</b> land sales among participants, with 100% land retention</li> <li>• Immediate income through intercropping ensuring food safety</li> <li>• Long-term diversified revenue streams</li> </ul>
 <b>Social</b>	<ul style="list-style-type: none"> <li>• Communities stabilised, reduced migration pressure</li> <li>• Farmer confidence restored</li> <li>• Sustainable land management adopted</li> </ul>